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NEWS 20 FEB 23 PCTFULL file on STN completely reloaded  
NEWS 21 FEB 23 STN AnaVist Test Projects Now Available for Qualified Customers  
NEWS 22 FEB 25 LPCI will be replaced by LDPCI  
NEWS 23 MAR 07 Pricing for SELECTING Patent, Application, and Priority Numbers in the USPAT and IFI Database Families is Now Consistent with Similar Patent Databases on STN  
NEWS 24 APR 26 Expanded Swedish Patent Application Coverage in CA/CAPLUS Provides More Current and Complete Information  
NEWS 25 APR 28 The DWPI (files WPINDEX, WPI DS and WPIX) on STN have been enhanced with thesauri for the European Patent Classifications

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FILE COVERS 1907 - 28 Apr 2011 VOL 154 ISS 18  
FILE LAST UPDATED: 27 Apr 2011 (20110427/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (transformation (w) cassette#)/bi,ab 439987  
TRANSFORMATION/BI 293839  
TRANSFORMATION/AB 32137 CASSETTE#/BI  
24994 CASSETTE#/AB  
L1 20 (TRANSFORMATION (W) CASSETTE#)/BI,AB

=> s l1 not 2011/py 600819 2011/PY  
L2 18 L1 NOT 2011/PY

=> s l2 not 2010/py 1933915 2010/PY  
L3 12 L2 NOT 2010/PY

=> s l3 not 2009/py 1912317 2009/PY  
L4 9 L3 NOT 2009/PY

=> s l4 not 2008/py 1810285 2008/PY  
L5 6 L4 NOT 2008/PY

=> s l5 not 2007/py 1729373 2007/PY  
L6 6 L5 NOT 2007/PY

=> s l6 not 2006/py 1591787 2006/PY  
L7 6 L6 NOT 2006/PY

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(FILE 'HOME' ENTERED AT 13:50:00 ON 28 APR 2011)  
FILE 'CAPLUS' ENTERED AT 13:50:41 ON 28 APR 2011  
L1 20 S (TRANSFORMATION (W) CASSETTE#)/BI,AB  
L2 18 S L1 NOT 2011/PY  
L3 12 S L2 NOT 2010/PY  
L4 9 S L3 NOT 2009/PY  
L5 6 S L4 NOT 2008/PY  
L6 6 S L5 NOT 2007/PY  
L7 6 S L6 NOT 2006/PY

=> d l7 1-6 bib ab

L7 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2011 ACS on STN  
AN 2004:593127 CAPLUS <<LOGINID::20110428>>  
DN 141:289470  
TI VIGS vectors for gene silencing: Many targets, many tools  
AU Robertson, Dominique  
CS Departments of Botany and Genetics, North Carolina  
State University, Raleigh, NC, 27695-7612, USA  
SO Annual Review of Plant Biology (2004), 55, 495-519  
CODEN: ARPDW  
PB Annual Reviews Inc.  
DT Journal; General Review  
LA English  
AB A review. The discovery that plants recognize and  
degrade invading viral RNA caused a paradigm shift in our  
understanding of viral/host interactions. Combined with the  
discovery that plants cosuppress their own genes if they are  
transformed with homologous transgenes, new models for  
both plant intercellular communication and viral defense have  
emerged. Plant biologists adapted homol.-based defense  
mechanisms triggered by incoming viruses to target individual  
genes for silencing in a process called virus-induced gene  
silencing (VIGS). Both VIGS- and dsRNA-contg.  
\*\*\* transformation\*\*\* \*\* cassettes\*\*\* are increasingly  
being used for reverse genetics as part of an integrated  
approach to detg. gene function. Virus-derived vectors silence

gene expression without transformation and selection.  
However, because viruses also alter gene expression in their  
host, the process of VIGS must be understood. This review  
examines how DNA and RNA viruses have been modified to  
silence plant gene expression. Advantages and disadvantages  
of VIGS in detg. gene function has been discussed and  
guidelines for the safe use of viral vectors.

OSC.G 92 THERE ARE 92 CAPLUS RECORDS THAT CITE  
THIS RECORD (92 CITINGS)

RE CNT 161 THERE ARE 161 CITED REFERENCES  
AVAILABLE FOR THIS RECORD ALL CITATIONS  
AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2011 ACS on STN  
AN 2001:122995 CAPLUS <<LOGINID::20110428>>  
DN 136:113372

TI Chloroplast transformation in *Euglena gracilis*: splicing of  
a group III twintron transcribed from a transgenic psbK  
operon

AU Doetsch, Natalie A.; Favreau, Mitchell R.; Kuscuoglu,  
Nesrin; Thompson, Michael D.; Hallick, Richard B.  
CS Department of Biochemistry and Molecular Biophysics,  
University of Arizona, Tucson, AZ, 85721, USA  
SO Current Genetics (2001), 39(1), 49-60 CODEN: CUGED5;  
ISSN: 0172-8083

PB Springer-Verlag  
DT Journal  
LA English

AB The *Escherichia coli* aadA gene product, which confers  
resistance to spectinomycin and streptomycin, has been  
widely used as a dominant selectable marker for chloroplast  
transformation of *Chlamydomonas* and tobacco. An aadA  
\*\*\* transformation\*\*\* \*\* cassette\*\*\* was adapted for  
expression in *Euglena gracilis* chloroplasts by replacing the  
*Chlamydomonas* promoter and 3' untranslated region (UTR)  
with the *E. gracilis* psbA promoter and 3' UTR. Transgenic  
DNA was introduced into *E. gracilis* chloroplasts by biolistic  
transformation. Streptomycin- and spectinomycin-resistant  
colonies were obtained, which screened pos. for the presence  
of the transforming vector by PCR amplification. Although  
integration of the transforming DNA into the chloroplast  
genome was not detected, transforming DNA was stably  
maintained in the chloroplast as an episomal element during  
continuous selection on antibiotics. The aadA cassette was  
also inserted into a transformation vector which contained the  
independently expressed psbK operon from either *E. gracilis* or  
a closely related species, *E. stellata*. The psbK operon  
contained at least two group III introns and a group III  
twintron, was highly expressed, and was only 1.5 kb in length.  
In transgenic *E. gracilis* chloroplasts, a truncated *E. stellata*  
psbK operon was transcribed, and the resultant pre-mRNA  
was accurately spliced. This system should allow the first  
direct anal. of group II and group III intron-splicing  
mechanisms. In addn., it could prove useful in the study of  
many other *Euglena* transcription and processing events.

OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE  
THIS RECORD (15 CITINGS)

RE CNT 63 THERE ARE 63 CITED REFERENCES AVAILA  
BLE FOR THIS RECORD ALL CITATIONS AVAILA  
BLE IN THE RE FORMAT

L7 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2011 ACS on STN  
AN 1998:293059 CAPLUS <<LOGINID::20110428>>  
DN 129:91014  
OREF 129:18647a,18650a

TI Root-directed expression of alien genes in transgenic potato: sarcotoxin and gus  
AU Mahler-Slasky, Yael; Galili, Shmuel; Perl, Avihai; Aly, Radi; Wolf, Shmuel; Aviv, Dvora; Galun, Esra  
CS Department of Plant Genetics, The Weizmann Institute of Science, Rehovot, Israel  
SO Basic Life Sciences (1997), 65(Biology of Root Formation and Development), 187-192 CODEN: BLFSBY; ISSN: 0090-5542  
PB Plenum Publishing Corp.  
DT Journal  
LA English  
AB Bacterial pathogens of potato, e.g. *Pseudomonas solanacearum*, are known to infect potato roots causing severe losses in relatively warm climates. Our intention was to express, in potato roots, a bactericidal peptide that was identified in the larvae of the flesh fly (*Sarcophaga peregrina*) by Natori and assoc. in 1977. The cDNA coding for this peptide was subsequently isolated and it was termed sarcotoxin 1A (sarco) by these investigators. The resp. protein was also characterized and the mature proteins mass is about 5kDa. We used the Tob promoter that is root specific, to direct sarco expression in roots. In parallel we used the Gus gene as a reporter gene for this (Tob) promoter activity. Thus, two constructions of fusion genes were made. In one we inserted Tob up-stream of sarco and in the second Tob was inserted up-stream of Gus. In both cases the coding region was followed by a terminator. Both  
\*\*\*transformation\*\*\* \*\*\*cassettes\*\*\* contained also a kanamycin (kana) resistance gene (nptII) that was inserted as a selective marker under the 35S (CaMV) promoter. Agrobacterium-mediated genetic transformation was performed with potato tuber disks. Five potato cultivars and breeding lines were used: Desiree, Achirana INTA, LT-9, TS-10, TS-15. Potato plants that regenerated from Agrobacterium infected tuber-disks and rooted on selective medium were regarded putative transformants and were further analyzed. We found that putative transformants that resulted from transformation of a vector that contained Gus driven by Tob, indeed expressed the reporter gene in their roots. This verified the potency and specificity of the chimeric genes in the transformation vector. Polyclonal anti-sarco antibodies were produced and used to evaluate the expression of sarco in the putative transgenic potato plants. Preliminary western blot assays indicated that indeed the roots of some of the plants that were transformed with the chimeric-gene that contained the Tob promoter and the sarco cDNA, showed bands that reacted with the anti-sarco antibodies.  
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT  
  
L7 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2011 ACS on STN AN 1997:568296 CAPLUS << LOG/NID::20110428 >>  
DN 127:230348  
OREF 127:44819a,44822a  
TI Recombinant expression cassettes for transformation of plant or other eukaryotes and regulation of gene expression in eukaryotes  
IN Teasdale, Robert Dixon; Mouradov, Aidyn; Southerton, Simon George; Sawbridge, Timothy Ivor  
PA Forbio Research Pty. Ltd., Australia; Teasdale, Robert Dixon; Mouradov, Aidyn; Southerton, Simon George; Sawbridge, Timothy Ivor  
SO PCT Int. Appl., 87 pp. CODEN: PIXXD2  
DT Patent

LA English  
FAN.CNT 1 PATENT NO. KIND DATE  
APPLICATION NO. DATE ----- -- --  
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PI WO 9730162 A1 19970821 WO 1997-AU89  
19970219 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG CA 2259456 A1  
19970821 CA 1997-2259456 19970219 AU 9717132  
A 19970902 AU 1997-17132 19970219 EP 882133  
A1 19981209 EP 1997-904302 19970219 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO CN 1216066 A 19990505 CN 1997-193833 19970219 JP 2000504577 T  
20000418 JP 1997-528833 19970219 NO 9803775  
A 19981015 NO 1998-3775 19980818  
PRAI AU 1996-8161 A 19960219 WO 1997-AU89  
W 19970219  
AB There is provided a method of regulating a eukaryotically active gene, comprising transforming a cell with a  
\*\*\*transformation\*\*\* \*\*\*cassette\*\*\* expressing a modulator gene product regulating the eukaryotically gene or its product and a further gene product regulating said modulator gene or its product, the promoters of two of said genes, modulator gene and further genes being selected from inducible promoters and developmental promoters for the same or complementary tissues. The lethal gene expressing barnase, a RNase of *B. amyloliquefaciens*, is placed under the control of a tissue specific promoter, such as those derived from PrMADS1, 2 or 3 of *Pinus radiata* or EGM1, 2 or 3 of *Eucalyptus grandis*. The same tissue specific promoter is used to express LacIq gene, a repressor for barnase (barstar) being promoted by a modified 35S RNA CaMV promoter including the lac operon. The cassette is used to transform plant cells for regeneration into plants expressing the barnase in the target tissues with improved specificity and reduced promoter leakage.  
OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)  
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT  
  
L7 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2011 ACS on STN AN 1995:346854 CAPLUS << LOG/NID::20110428 >>  
DN 122:98806  
OREF 122:18495a,18498a  
TI Transformation vectors that direct the integration of transforming DNA into the ribosomal DNA of a eukaryotic host  
IN Jacobs, Eric  
PA Transgene S.A., Fr.  
SO PCT Int. Appl., 35 pp. CODEN: PIXXD2  
DT Patent  
LA French  
FAN.CNT 1 PATENT NO. KIND DATE  
APPLICATION NO. DATE ----- -- --  
-----  
PI WO 9424300 A1 19941027 WO 1994-FR419  
19940414 W: AU, CA, JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE FR 2703996  
A1 19941021 FR 1993-4530 19930416 FR 2703996

B1 19950721 CA 2160697 A1 19941027 CA  
1994-2160697 19940414 AU 9465719 A  
19941108 AU 1994-65719 19940414 AU 686156  
B2 19980205 EP 694072 A1 19960131 EP 1994-  
913647 19940414 R: AT, BE, CH, DE, DK, ES, FR,  
GB, GR, IE, IT, LI, LU, MC, NL, PT, SE JP 08508878 T  
19960924 JP 1994-522836 19940414 US 6346414  
B1 20020212 US 1995-532657 19951016  
PRAI FR 1993-4530 A 19930416 WO 1994-FR419  
W 19940414

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS  
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AB Transposition cassettes that preferably integrate into the  
ribosomal DNA of a eukaryotic host and based on a eukaryotic  
transposable element are described for use in gene therapy.  
The vectors carrying these cassettes also carry all the  
functions necessary for integration. The construction of a  
cassette for integration of transforming DNA into the human  
28 S rRNA gene using the mobile intron 3 of the Carolina  
strain of Physarum polycephalum is demonstrated. This  
cassette was then introduced into an adenovirus that also  
carried an expression cassette for the P. polycephalum  
mobility endonuclease I-Ppo-I. A neomycin resistance marker  
was also included in the constructs.

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE  
THIS RECORD (4 CITINGS)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE  
FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE  
RE FORMAT

L7 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2011 ACS on STN  
AN 1994:319682 CAPLUS <<LOGINID::20110428>>  
DN 120:319682  
OREF 120:56129a,56132a

TI Transgenic plants with altered starch productivity  
IN Keeling, Peter Lewis; Lomako, Joseph; Geowar-Singh,  
Dave; Singletary, George William; Whelan, William Joseph  
PA Zeneca Ltd., UK  
SO PCT Int. Appl., 84 pp. CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1 PATENT NO. KIND DATE  
APPLICATION NO. DATE ----- ---- ----- ..  
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PI WO 9404693 A2 19940303 WO 1993-GB1821  
19930826 WO 9404693 A3 19940331 W: AU, BB,  
BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN,  
MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN RW: AT, BE,  
CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,  
BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG AU  
9349707 A 19940315 AU 1993-49707  
19930826 AU 685065 B2 19980115 EP 658208  
A1 19950621 EP 1994-908157 19930826 R: AT,  
BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
US 5859333 A 19990112 US 1995-392816  
19951218

PRAI GB 1992-18185 A 19920826 WO 1993-  
GB1821 W 19930826

AB Plants with an altered starch synthesizing ability are  
produced by incorporating into the genome of the plant  
gtoreq.1 donor gene encoding a starch primer such as  
amylogenin, glycogenin, or protoglycogenin. The donor gene  
can be inserted into the host genome in the sense or anti-  
sense orientation. The recipient plant may be selected from  
Gramineae and Zea mays. The partially cloned amylogenin  
cDNA of B73 maize is disclosed and a procedure for the

construction of \*\*\*transformation\*\*\* \*\*\*cassette\*\*\*  
described.

OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE  
THIS RECORD (10 CITINGS)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE  
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L2	18 S L1 NOT 2011/PY
L3	12 S L2 NOT 2010/PY
L4	9 S L3 NOT 2009/PY
L5	6 S L4 NOT 2008/PY
L6	6 S L5 NOT 2007/PY
L7	6 S L6 NOT 2006/PY

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44.59

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